



Docket No.: 31978-235608

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Sergei A. Svarovsky et al.

Application No: 10/594,075

Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: September 22, 2006

Atty. Docket No: 31978-235608

For: CARBOHYDRATE-ENCAPSULATED **OUANTUM DOTS FOR BIOLOGICAL**

IMAGING

Customer No:

PATENT TRADEMARK OFFICE

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear on any patent to issue therefrom. Copies of documents **B1-B10** and **C1-C19** are enclosed.

This First Supplemental Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

In accordance with 37 CFR 1.9(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and nonpatent literature in accordance with 37 CFR 1.98(a)(2).

In order to correct or add information to the citations presented in the Information Disclosure Statement previously filed on September 22, 2006, the following citations are

Application No.: 10/594,075 Docket No.: 31978-235608

represented in this First Supplemental Information Disclosure Statement: Svarovsky et al., Carbohydrate Research, Vol. 338 (2003), pp. 1925-1935 (document C11); Faulkner, www.thenewsstar.com, Oct. 22, 2003, pp. 1-2 (document C18); and Chen, Nano Letters, Vol. 3, No. 5 (2003), pp.581-584 (document C19).

In accordance with 37 CFR 1.97(g), the filing of this First Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this First Supplemental Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the First Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 31978-235608. A Fee Transmittal is enclosed.

Dated: November 13,2006

Respectfully submitted,

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#796293



Sub	stitute for form 1449/P7	ro		Complete if Known		
				Application Number	10/594,075	
11	NFORMATIO	ON DISC	LOSURE	Filing Date	September 22, 2006	
S	TATEMEN	ГВҮ АР	PLICANT	First Named Inventor	Sergei A. Svarovsky	
				Art Unit	Not Yet Assigned	
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Sheet	1	of	4	Attorney Docket Number	31978-235608	

Exami		T		NT DOCUMENTS	
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				Application Number	10/594,075	
11	NFORMATION	1 DI	SCLOSURE	Filing Date	September 22, 2006	
s	TATEMENT B	3Y /	APPLICANT	First Named Inventor	Sergei A. Svarovsky	
				Art Unit	Not Yet Assigned	
	(Use as many sh	eets as	s necessary)	Examiner Name	Not Yet Assigned	
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:	B9	International Search Report and Written Opinion of the International Searching Authority, issued in PCT/US2005/009344	mailed 12-21-2005	U.S. Department of Health and Human Services		
	B10	International Preliminary Report on Patentability, date, issued in PCT/US2005/009344	mailed 10-05-2006	U.S. Department of Health and Human Services		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner	Date
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				Application Number	10/594,075	
IN	NFORMATIO	N DI	SCLOSURE	Filing Date	September 22, 2006	
S	TATEMENT	BY A	APPLICANT	First Named Inventor	Sergei A. Svarovsky	
				Art Unit	Not Yet Assigned	
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Sheet	3	of	4	Attorney Docket Number	31978-235608	

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
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	C15	(SEARCH 2) Results of LEXIS search performed September, 2004. Search string = atleast5(quantum dot or quantum confin! or nanocrystal!) and atleast5(bio!) and atleast3(glycol)						
	C16	(SEARCH 3) Results of LEXIS search performed September, 2004. Search string = (quantum dot or quantum confin! or nanocrystal!) and bio! and (mercapto! or thio!)						
	C17	(SEARCH 4) Results of LEXIS search performed September, 2004. Search string = quantum						
Examiner Signature		Date Considered						

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				Application Number	10/594,075	
INF	ORMATIO	N DI	SCLOSURE	Filing Date	September 22, 2006	
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				Art Unit	Not Yet Assigned	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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Approved for use through 01/31/2007. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

Complete if Known Effective on 12/08/2004. 10/594,075 ees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). **Application Number** TRANSMITTAL September 22, 2006 Filing Date Sergei A. Svarovsky First Named Inventor For FY 2005 **Examiner Name** Not Yet Assigned Applicant claims small entity status. See 37 CFR 1.27 Not Yet Assigned Art Unit 31978-235608 TOTAL AMOUNT OF PAYMENT 0.00 Attorney Docket No. (\$) METHOD OF PAYMENT (check all that apply) None Other (please identify): Check Credit Card Money Order Venable LLP x Deposit Account Deposit Account Number: 22-0261 Deposit Account Name: For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayment of x Credit any overpayments fee(s) under 37 CFR 1.16 and 1.17 **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES** SEARCH FEES **EXAMINATION FEES Small Entity Small Entity** Small Entity Fees Paid (\$) **Application Type** Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) 200 100 Utility 300 150 500 250 Design 200 100 100 50 130 65 200 300 150 160 80 Plant 100 Reissue 300 150 500 250 600 300 200 0 0 0 Provisional 100 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee (\$) Fee Description Each claim over 20 (including Reissues) 50 25 Each independent claim over 3 (including Reissues) 200 100 Multiple dependent claims 360 180 **Total Claims** Extra Claims Fee Paid (\$) **Multiple Dependent Claims** Fee (\$) Fee (\$) Fee Paid (\$) - 20 = HP = highest number of total claims paid for, if greater than 20. Indep. Claims Extra Claims Fee Paid (\$) HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$) Extra Sheets - 100 = /50 (round up to a whole number) x 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): SUBMITTED BY Registration No. 46,722 Telephone (202) 344-4000 Signature (Attorney/Agent) Lars H. Genieser Date Name (Print/Type)

PTO/SB/21 (09-06) Approved for use through 03/31/2007. OMB 0651-0031

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Application Number

Filing Date **TRANSMITTAL** September 22, 2006 First Named Inventor **FORM** Sergei A. Svarovsky Art Unit Not Yet Assigned Examiner Name Not Yet Assigned (to be used for all correspondence after initial filing) Attorney Docket Number 31978-235608 Total Number of Pages in This Submission ENCLOSURES (Check all that apply) After Allowance Communication x | Fee Transmittal Form Drawing(s) Appeal Communication to Board of Fee Attached Licensing-related Papers Appeals and Interferences Appeal Communication to TC Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Other Enclosure(s) (please Extension of Time Request Terminal Disclaimer Identify below): Form PTO/SB/08A and 29 cited Request for Refund **Express Abandonment Request** documents First Supplemental Information CD, Number of CD(s) Disclosure Statement Certified Copy of Priority Landscape Table on CD Document(s) Reply to Missing Parts/ Remarks Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Reg. No.

46,722

#796304

Date

Firm Name

Signature

Printed name

VENABLE LLP

Lars H. Genieser